

WHAT IS CLAIMED IS:

1. A wireless communication apparatus for performing a wireless communication, comprising:

a transceiving unit for receiving and transmitting data externally, the transceiving unit maintaining a link to at least one slave device and receiving a requested priority from the at least one slave device, when the wireless communication apparatus is operated as a master; and

a controller for determining a priority of the at least one slave device considering the requested priority, determining a frequency of communication according to the priority of the at least one slave device and controlling the communication with the at least one slave device.

2. The wireless communication apparatus of claim 1, wherein the frequency of communication increases as the priority increases.

3. The wireless communication apparatus of claim 1, wherein the controller assigns a priority lower than the requested priority when the requested priority is not allowable to the at least one slave device.

4. The wireless communication apparatus of claim 1, wherein the controller communicates with the at least one slave device in accordance with the frequency of communication.

5. The wireless communication apparatus of claim 4, wherein the controller subtracts one time from the frequency of communication after each communication between the controller and the at least one slave device.

6. The wireless communication apparatus of claim 1, further comprising a memory for storing the frequency of communication of the at least one slave device.

7. The wireless communication apparatus of claim 6, wherein the controller updates the frequency of communication stored in the memory after communicating with the at least one slave device.

8. A wireless communication system having at least one slave device and a master device linked with the at least one slave device, the at least one slave device transmitting a requested priority to the master device, and the master device receiving the requested priority from the at least one slave device, and determining and assigning the at least one slave device with a priority considering the requested priority.

9. The wireless communication system of claim 8, wherein the at least one slave device transmits the requested priority to the master device upon being linked with the master device.

10. The wireless communication system of claim 8, wherein the at least one slave device transmits the requested priority according to the amount of data to be transmitted to the master device.

11. The wireless communication system of claim 8, wherein the priority assigned by the master device is lower than the requested priority if the requested priority is not allowable to the at least one slave device.

12. The wireless communication system of claim 8, wherein the master device communicates with the at least one slave device in accordance with a frequency of communication which is determined according to the priority.

13. The wireless communication system of claim 12, wherein the master device subtracts one time from the frequency of communication after each communication between the master device and the at least one slave device.

14. The wireless communication system of claim 12, wherein the frequency of communication increases as the priority increases.

15. A communication method in a wireless communication system having at least one slave device and a master device linked with the at least one slave device, comprising the steps of:

(a) receiving a requested priority from the at least one slave device;

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(b) determining and assigning the at least one slave device with a priority considering the requested priority.

16. The communication method of claim 15, wherein, in the step (b), the priority assigned to the at least one slave device is lower than the requested priority, if the requested priority is not allowable to the at least one slave device.

17. The communication method of claim 15, further comprising the step of (c) communicating with the at least one slave device according to the priority.

18. The communication method of claim 17, wherein the step (c) subtracts one time from the frequency of communication after each communication with the at least one slave device.